abcam

Product datasheet

Anti-RAB11-FIP2 antibody [EPR12294-85] ab180504

Recombinant RabMAb

2 References 8 Images

Overview

Product name	Anti-RAB11-FIP2 antibody [EPR12294-85]
Description	Rabbit monoclonal [EPR12294-85] to RAB11-FIP2
Host species	Rabbit
Specificity	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	293 and HeLa whole cell lysate (**ab150035**); Human brain tissue; 293 cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12294-85
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab180504 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/50.
WB		1/1000 - 1/10000. Detects a band of approximately 58 kDa (predicted molecular weight: 58 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. See **IHC antigen retrieval protocols**. **For unpurified use at 1/250.**
ICC/IF		1/100.

Target

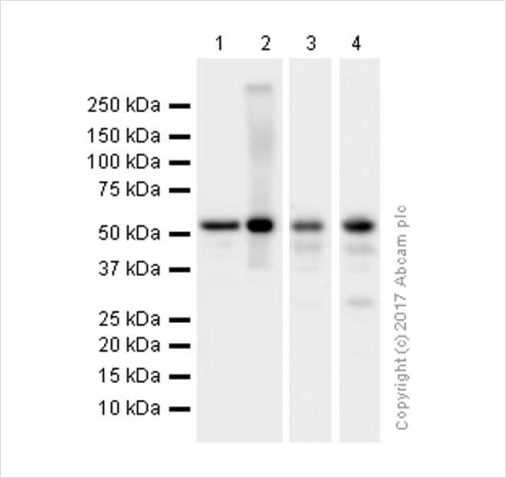
Function A Rab11 effector binding preferentially phosphatidylinositol 3,4,5-trisphosphate (PtdInsP3) and phosphatidic acid (PA) and acting in the regulation of the transport of vesicles from the endosomal recycling compartment (ERC) to the plasma membrane. Involved in insulin granule exocytosis. Also involved in receptor-mediated endocytosis and membrane trafficking of recycling endosomes, probably originating from clathrin-coated vesicles. Required in a complex with MYO5B and RAB11 for the transport of NPC1L1 to the plasma membrane. Also acts as a regulator of cell polarity.

Sequence similarities Contains 1 C2 domain.
Contains 1 FIP-RBD domain.

Post-translational modifications Phosphorylation at Ser-227 by MARK2 regulates epithelial cell polarity.

Cellular localization Cell membrane. Recycling endosome membrane. Translocates with RAB11A from the vesicles of the endocytic recycling compartment (ERC) to the plasma membrane.

Images



Western blot - Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504)

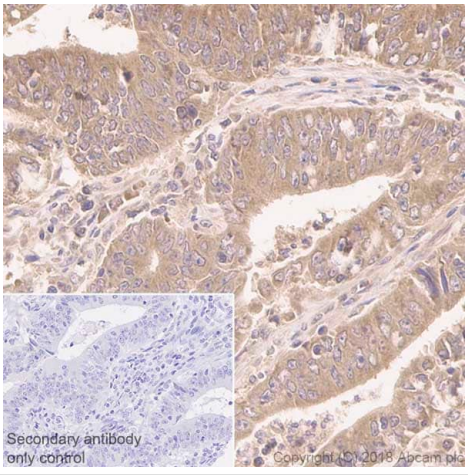
All lanes : Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504) at 1/10000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysates
Lane 3 : Mouse brain lysates
Lane 4 : Rat brain lysates

Lysates/proteins at 20 µg per lane.

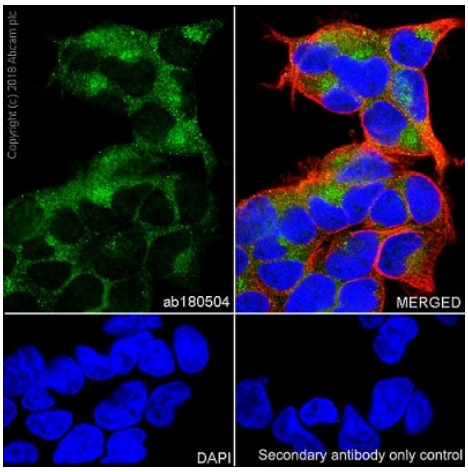
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 58 kDa
Observed band size: 58 kDa



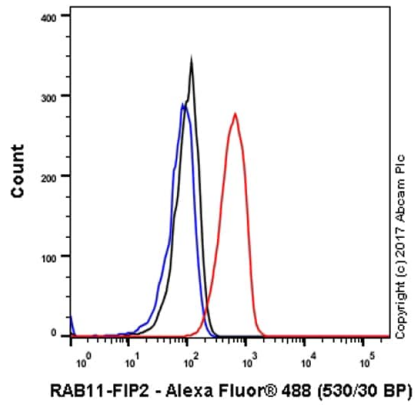
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon cancer tissue sections labeling RAB11-FIP2 with Purified ab180504 at 1:500 dilution (1.09 µg/ml). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use). PBS instead of the primary antibody was used as the negative control.



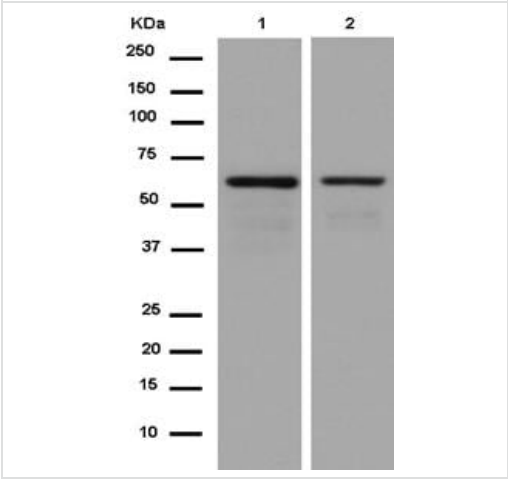
Immunocytochemistry/ Immunofluorescence - Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504)

Immunocytochemistry/ Immunofluorescence analysis of HEK-293 (human embryonic kidney epithelial cell) cells labeling RAB11-FIP2 with purified ab180504 at 1:100 (5.5 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504)

Intracellular Flow Cytometry analysis of HEK-293 (Human embryonic kidney epithelial cell) cells labeling RAB11-FIP2 with purified ab180504 at 1/50 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504)

All lanes : Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504) at 1/10000 dilution (unpurified)

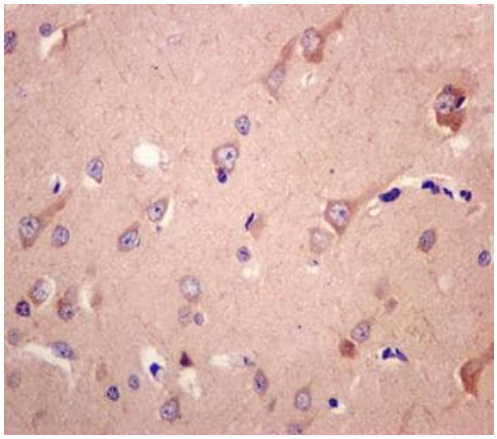
Lane 1 : 293 cell lysate
Lane 2 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

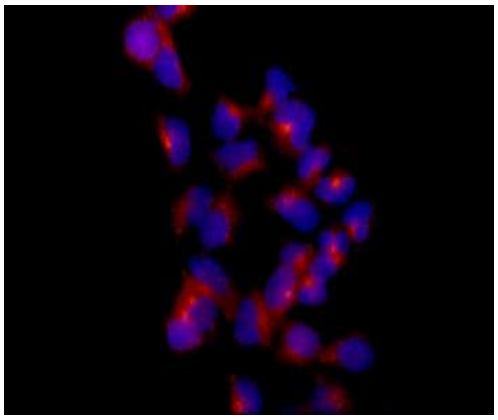
Developed using the ECL technique.

Predicted band size: 58 kDa
Observed band size: 58 kDa



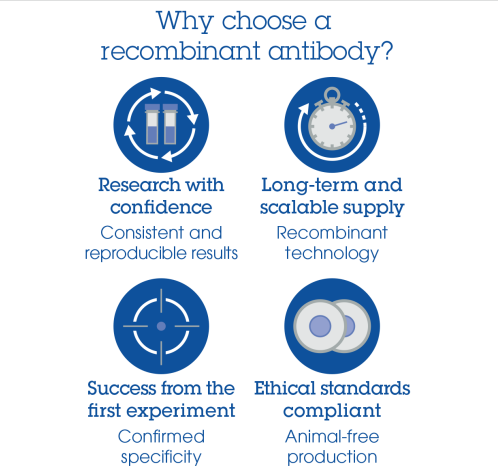
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504)

Immunohistochemical analysis of paraffin-embedded, Human brain tissue labeling RAB11-FIP2 with unpurified ab180504 at a 1/250 dilution. Counter stained with hematoxylin.



Immunocytochemistry/ Immunofluorescence - Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504)

Immunofluorescence analysis of, paraformaldehyde-fixed, 293 cells labeling RAB11-FIP2 with unpurified ab180504 at a 1/100 dilution. As secondary antibody goat anti rabbit IgG (Alexa Fluor®555) was used at a 1/250. In blue DAPI staining.



Anti-RAB11-FIP2 antibody [EPR12294-85] (ab180504)

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